THEORY IS 'ALL ROT' which he was searching and resulting in a nervous twitching down of the twig. Prof. Barrett laid the dowser's success to "unconscious clairvoyance" and the direct cause of the turning to some muscular spasm excited in various ways unexplained. Both agreed that few possessed the divining power. SAYS DIVINING ROD

Scientific Men Insist There Is No Virtue in a Forked

Engineers and men of science who were approached on the subject of their familiarity with the dowser, as the man

University, yesterday. "I don't think any competent scientist in this country ever has taken the divining rod seriously or attempted to experiment with it themselves. I know I haven't and although I have seen it tested several times I never have seen an attempt to locate water by it re-

"Most of the belief in the divining rod in this country seems to be in California, and most of those persons who have asked me to witness their tests have come from the Pacific coast. Just why I have never been able to decide, unless it is that California is very prolific in all sorts

Mining engineers have no faith in the divining rod either. George C. Stone, treasurer of the Ameri-can Institute of Mining Engineers, said it

can Institute of Mining Engineers, said it never works.

"I have heard of mining engineers who have tried jt, although I never have seen an experiment myself," said Mr. Stone, "and I am sure no mining man believes in the rod."

The one voice in support of the dowser yesterday was from Robert S. Woodworth, professor of psychology in Columbia University, who thinks that the subject of divining rods lies in his department and who offered a theory in defence of the dowser.

"I can explain the action of the divining rod only as being due to auto-sug-

"I can explain the action of the divining rod only as being due to auto-suggestion," said Prof. Woodworth. "I have heard several cases of finding water by means of the rod that seemed to be due to more than mere chance. I never have seen a rod in action, but I have been told by friends of several successful experiments.

The total amount pair on which a tax of \$635.03 tax of \$1,250 was paid \$25,000 bequests.

It May Be an Instinct.

'It is possible that some persons possess an instinct which would suggest to them when on ground under which is water that such would be a good place for them to dig for it. Or it may be that they can distinguish almost without realizing it signs of water on the ground

As Prof. Peele says, the superstition of the efficacy of the divining rod in finding water or minerals dates back centuries to the days when prospectors in the Hartz Mountains in Germany felt their way with the forked twig over the places where they supposed ore was to be found. The rod was described by Prof. Peele as being "in the shape of a Y. which was taken hold of by the two ends and held horizontally in front of the dowser, with the tail of the Y pointing outward. Holding the twig in this way the dowser walks over the ground where minerals or water is being sought until on stepping on a spot that lies more or less vertically over the sought mineral or water the sought mineral or water the sought mineral or water the sought of the Ly is supposed to be depressed, the force depressing it said to be so great that sometimes the twig snaps in the hands."

As to the tree from which the twig may be cut there is the widest diversity of opinion. Most use willow or haze!, but Charles Latimer, an American Telegraph and Cable, \$489,330; 2500 Pullman, \$555,000; 4,402 Iowa Central, \$228,504; 9,330 St. Louis. Iron Mountain and Southwestern common. \$196,350; 13,265 preferred, \$663,250; 625 National Bank of Commerce, \$112,500; 497 Importers and Traders Bank, \$278,-320, and 1,000 Mercantile Trust Company, \$825,000.

Mr. Sage owned the Poughkeepsie and Eastern Railroad, the stock and bonds of which were appraised at \$350,000. The valuation of the securities was fixed as of the date of his death. Among the other assets of the estate were a Stock Exchange membership worth \$81,000, cash \$612,619, and an open account of Mrs. Sage, \$56,532.

The stocks and bonds found to be worthless' included: \$146,000 State of Georgia gold bonds, \$60,000 State of North Carolina bonds, 3,189 shares Minnesota Central, 330 shares Milwaukee Iron Common.

neer, who wrote a monograph on the sub-ject which he read in 1875 before the Civil Engineers Club of the Northwest in Chicago, said he had used peach, apple, willow, dogwood, beech and maple twigs and had heard of an old barrel hoop being used with success. Mr. Latimer be-lieved in the rod.

In his monograph Latimer mentions that when chief engineer of the Lake Shore Railroad he wanted to find water at a town called Coloma, where a station was being built. He said he found water with ease with the aid of a rod. He tells also of an employee on Horace Greeley's farm at Chappaqua who found water with a rod for Mr. Greeley. The farmhand's rod twitched downward while he was walking over a rock. Powder he was walking over a rock. Powder blew the rock apart and forth gushed a

A Professor Upholds the Red.

Prof. W. S. Barrett, the chief modern investigator of the divining rod, made an exhaustive study of the subject for the Society for Psychical Research in London Prof. Barrett says he entered on the Prof. Barrett says he entered on the study in a sceptical frame of mind, but when his researches were ended concluded that the efficacy of the divining rod could not be doubted when handled by persons in whom the gift to locate water exists.

He has written:

He has written:

SAYS ROD WIELDER KNOWS

Yale Professor Declares Paychology Plays Part in Divining.

PSYCHOLOGIST HAS HOPES

PSYCHOLOGIST HAS HOPES

Columbia Professor Thinks Instinct May Lead Some

Persons to Water.

It was evident yesterday that it would be hard to gather together in this country a congress of scientific men—geologists, mineralogists or physicists—to inquire soberly into the efficacy of the country a congress of scientific men—geologists, mineralogists or physicists—to inquire soberly into the efficacy of the country and in finding water or minerals, as is being done by a German scientific society in Halle, Germany, news of which was printed in The Sun yesterday morning.

Engineers and men of science who were sciously to both the correct direction is in-dicated.

"Now it is a fact that these subconfamiliarity with the dowser, as the man who works the rod is called, with one exception said: "The dowser is a fraud.
"It is all rot," said Prof. Daniel W. Hering, professor of physics of New York University, vesterday "It don't think and the scious bases of judgment often produce involuntary muscular movements as in the case of muscle reading. This is probably the case with the divining rod so far as it has any reliability at all. That far as it has any rehability at all. That is to say, a person who has good judgment in locating a water supply by ratural appearances may find that even without, any intention the divining rod held in his hand dips when he comes to

a likely spot.
"It is not anything in the rod itself that indicates the water, bu the involuntary movement of the man in response to his still unconscious 'feel' that this is the place. That is, one's muscles often in-voluntarily indicate a judgment before the judgment itself has actually entered clear

SUIT SHOWS AMOUNT RUSSELL SAGE LEFT

Continued from First Page.

his charge of \$170,000 for legal expenses was reasonable because the services had been extensive and involved a complete investigation of the Sage family tree because of a bequest in the decedent's will leaving \$25,000 to each heir at law. As a result of the investigation twenty-eight nephews, nieces, grandnieces and grand-

The total amount paid to Margaret Olivia Sage, the widow, was \$63,503,800, on which a tax of \$635,038 was paid. A tax of \$1,250 was paid on each of the

Big Individual Holdings.

The individual holdings of Mr. Sage are also listed in the report and since there has been little change in the in-vestments since Mr. Sage's death the now held by the Sage estate. Among the largest bond holdings were the following: that they can distinguish almost without realizing it signs of water on the ground that would be unseen by the average person, and that these signs would so operate on their mind as to cause them to turn the stick downward, without being conscious of the motive emanating from themselves:

"At least there seem to be cases of pear as mere accidents."

But Prof. Robert Peele of the Columbia

wow held by the Sage estate. Among the largest bond holdings were the following:

St. Louis, Iron Mountain and Southern, \$2,366,417; Texas and Pacific, \$942,480;
Galveston, Houston and Henderson, \$210,-80; St. Louis Southwestern, \$356,662;
Missouri Pacific, \$1,527,799 and \$1,823,-59; Wabash debentures, \$1,130,500; Missouri, Kansas and Texas, \$485,865, and Iowa Central, \$555,000; and New York Iowa Central, \$555,000; and New York

But Prof. Robert Peele of the Columbia Scheel of Mines expresses his contempt for the dowser in describing him as a Manhattan Railway, \$1,822,947: 1.500 Manhattan Railway, \$1,822,947: 1.500 "There is no virtue in the rod," he Steel common, \$406,812; 5,000 Steel pre-sys: "It is an old superstition that ferred, \$815,000: 15,282 Missouri Pacific, came from central Europe two or three special centuries ago. I have heard mining engineers discuss it, but in a way that shows they do not believe in it. I am sure no mining man takes it seriously."

As Prof. Peele says, the superstition of the different of the distinct serious of the distinct

Central, 330 shares Milwaukee Iron Com pany, 3,000 shares Sabula and Marion City Construction Company, 751 share Grinnell and Monteguma Railroad, 562 shares International Railway Improvemen Company, 500 shares Denver and New Orleans, 826 shares Deleville and Eldorad Company, 950 shares Chicago Elevated Company and 800 shares of the Trades-man's Bank. Mr. Sage had no mining

Held Valuable Real Estate.

Mr. Sage owned thirty-nine parcels of real estate in Manhattan, the most valuable being the northwest corner of Central Park West and 102d street, worth \$260.000. His residence at 632 Fifth avenue was appraised at \$50,000. He had household goods worth \$8,052 in the Fifth avenue residence and property worth \$3,000 in his country place at Lawrence, L. I.

Justice Brady dismissed the suit of the State against the safe deposit company to recover \$1,000 penalty on the ground that since Mr. Osborhe was a joint owner of the safe deposit box the company couldn't have refused to permit Mr. Osborne to remove property from the box after Mr. Sage's death. Deputy Attorney-Genéral Beyer will argue an appeal from Justice Brady's decision before the Appellate Division next month.

WILL STUDY WESTERN LAWS.

water exists.

He has written:

"Making a liberal allowance for failures of which I have not heard, I have no hesitation in saying that where water fissures exist and the discovery of underground water sufficient for a domestic supply is a matter of the utmost difficulty the chances of success with a good dowser far exceed mere lucky hits or the success obtained by the most skilful observer, even with full knowledge of the local geology."

Prof. Barrett tells of an interesting instance of the use of the dowser that came to his attention. In 1887 Richardson & Co., bacon makers at Waterford, Ireland, wished to locate a sufficient water supply for their factory purposes. They employed inen to bore for water and sunk three shafts at a cost of more than \$5,000 without getting more than a trickle.

Finally as a last hope they sent for an old dowser named Mullins. With his little forked stick Mullins went around the place where the holes were bored, and finally his stick jerked downward at a spot early a short distance from one of the borings. At a depth of ninety feet water gushed forth and flowed for years.

Mr. Latimer, the American engineer, and Prof. Barrett, the English scientist, both agreed that the cause of the twig twitching was in the operator. Mr. Latimer of some personal electricity which made the system of the commission finds that litigation involving compensation has consequently ceased to exist.

DRESS MANUFACTURERS SUED.

Tip Top Waist and Dress Company Charges Complete.

The Tip Top Waist and Dress Complete Workers Union to company of 133 West Twenty-first street has brought suif in the Supreme Court for \$50,000 damages against the Dress and \$\text{Waist Manufacturers Association and the members of its executive committee. The association and the members of its executive committee. The bringing about the general strike of garter workers last January and forcing ment workers last January and forcing ment workers last January and forcing the members of the Dress and other interference on the part of the Waist Manufacturers Association.

Mr. Relly charges that the defendants were instrumental in bringing about the general strike of garter workers last January and forcing ment workers last January and forcing the Tip Top company as a condition for ment workers last January and forcing the manufacturers association.

Mr. Relly charges that the defendants were instrumental in bringing about the general strike of garter workers last January and forcing the members of the Dress and other interference on the part of the Waist Manufacturers Association.

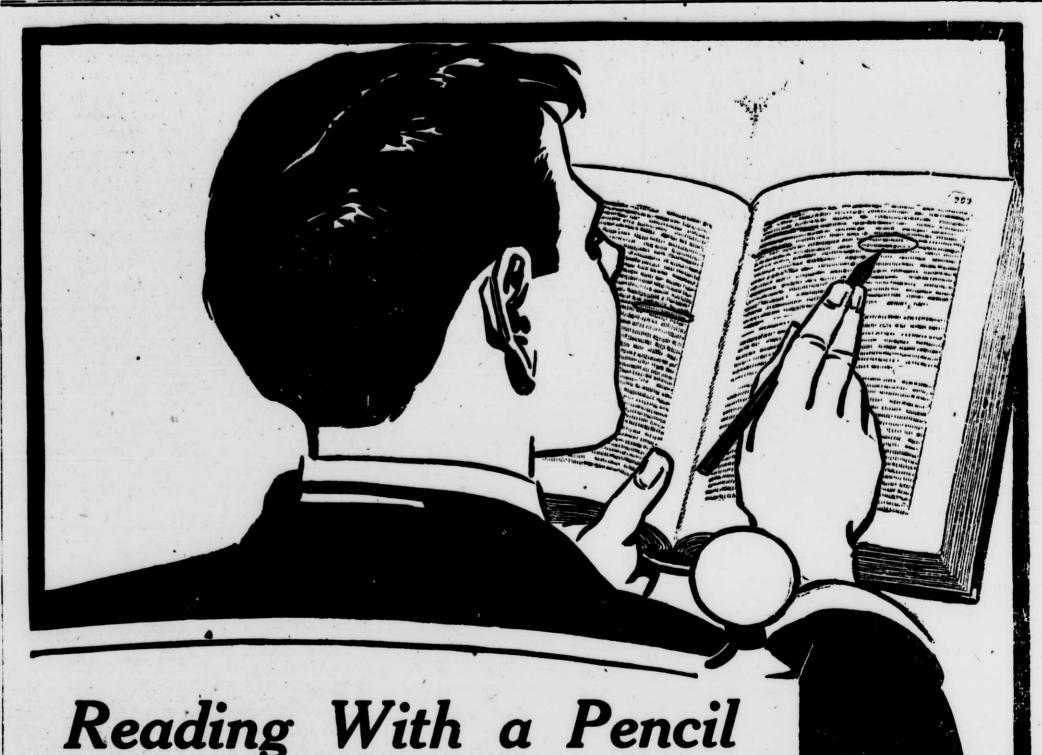
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Mr. Relly charges that the defendants were instrumental in bringing about the general strike of garter workers last January and forcing the members of the Dress and other interference on the part of the manufacturers Association.

Charles Dushkind of 5 Beekman street in the members of the Dress and other interference on the part of the manufactur

will of 700 enemies of special privileges in Rockefeller, Lake county, the Post Office Department to-day wiped Rockefeller off the map and made it Area, Ill. Senator



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